

BOVINE REAL TIME PCR

DNA DETECTION KIT

Real Time PCR Cow DNA Detection Kit

Test system for the qualitative detection of bovine DNA in food products by PCR Real time

Product code: IC-02-1210 (50 tests) / IC-02-1211 (25 tests)

Descrizione

Bovine Real Time PCR Detection Kit provides reagents for the qualitative detection of bovine DNA in several food products, fresh and processed. The PCR Real Time kit amplifies a DNA fragment that is present solely in bovine. The amplified DNA segment is detected by hybridisation with a probe labelled with fluorescent dyes. The increase in fluorescence is continuously measured in a PCR real-time detection instrument.

Bovine Real Time PCR Detection Kit is a tool for the detection of bovine in food matrices that should not contain it, with the objective to identify possible frauds or contamination problems along the production supply chain.

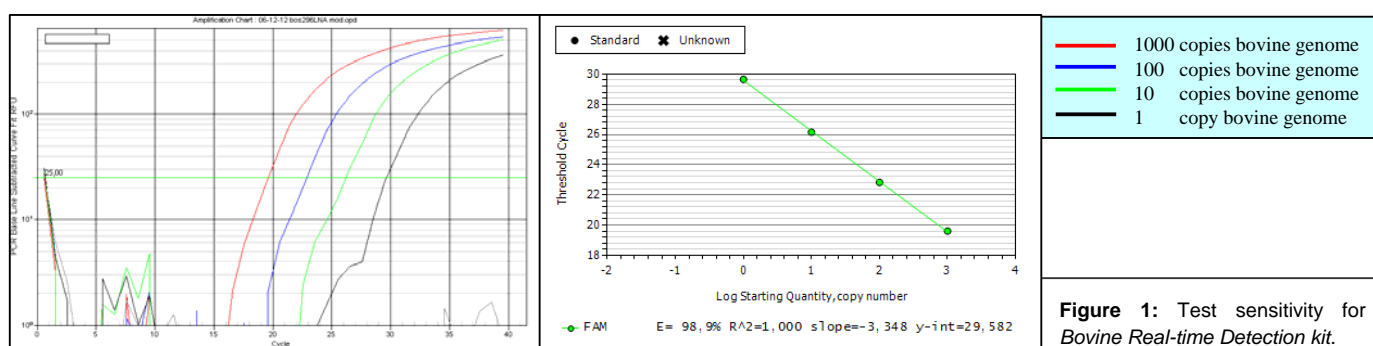


Figure 1: Test sensitivity for Bovine Real-time Detection kit.

Caratteristiche Tecniche

Number of tests	25/50 target DNA specific reactions
Kit components	Mix <i>Test Bovine</i> (with duplex inhibition control) – DNA positive control – sterile H ₂ O DNase free
Specificity	the kit has been tested with DNA extracted from both raw material and processed food. The specificity of the system has been validated with several other species normally used in food production (see the Panel below). No cross-reactivity effects have been revealed.
Limit of Detection	1 copy of bovine haploid genome, equal to roughly 3.7 pg of <i>Bos taurus</i> DNA (see Fig.1).
Detection	Probe labelled with fluorescent dyes Taqman® - FAM and JOE

Specificity control group tested **negative** for cross-reactivity:

Buffalo (<i>Bubalus bubalis</i>)	Pig (<i>Sus scrofa</i>)
Chicken (<i>Gallus gallus</i>)	Rabbit (<i>Oryctolagus cuniculus</i>)
Codfish (<i>Merluccius capensis</i>)	Reindeer (<i>Rangifer tarandus</i>)
Goat (<i>Capra hircus</i>)	Roe (<i>Capreolus capreolus</i>)
Hare (<i>Lepus europaeus</i>)	Salmon (<i>Salmo salar</i>)
Horse (<i>Equus caballus</i>)	Sheep (<i>Ovis aries</i>)
Maize (<i>Zea mays</i>)	Soy (<i>Glycine max</i>)
Man (<i>Homo sapiens sapien</i>)	Turkey (<i>Meleagris gallopavo</i>)
Mouse (<i>Mus musculus</i>)	